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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/849,742  | 05/20/2004  | John Jianhua Chen    | S63.2-14129-US01    | 8570             |
| VIDAS, ARRETT & STEINKRAUS, P.A. SUITE 400, 6640 SHADY OAK ROAD |             |                      | EXAMINER            |                  |
|   |             |                      | AZPURU, CARLOS A    |                  |
| EDEN PRAIRIE, MN 55344  |             |                      | ART UNIT            | PAPER NUMBER     |
|   |             |                      | 1615                |                  |
|   |             |                      |                     |                  |
|   |             |                      | MAIL DATE           | DELIVERY MODE    |
|   |             |                      | 10/13/2009          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.  | Applicant(s)   |
|--|--|--|
|  | 10/849,742   | CHEN ET AL.  |
| Office Action Summary  | Examiner   | Art Unit   |
|  | Carlos A. Azpuru   | 1615   |
| The MAILING DATE of this communication ap<br>Period for Reply  | ppears on the cover sheet with the   | correspondence address   |
| A SHORTENED STATUTORY PERIOD FOR REPOWHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tild will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE | N. mely filed  the mailing date of this communication. ED (35 U.S.C. § 133). |
| Status   |  |  |
| Responsive to communication(s) filed on 15.      This action is <b>FINAL</b> . 2b) ☐ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under  | is action is non-final.<br>ance except for formal matters, pr  |  |
| Disposition of Claims  |  |  |
| 4)  Claim(s) 1-9 and 13-24 is/are pending in the 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-9, 13-24 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/   | awn from consideration.  |  |
| Application Papers   |  |  |
| 9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the specific path or declaration is objected to by the Examiration.  | ecepted or b) objected to by the e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob   | e 37 CFR 1.85(a).<br>ojected to. See 37 CFR 1.121(d).                        |
| Priority under 35 U.S.C. § 119   |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burest * See the attached detailed Office action for a list  | nts have been received.<br>nts have been received in Applicat<br>fority documents have been receiv<br>au (PCT Rule 17.2(a)).   | ion No<br>ed in this National Stage  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date   | 4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal I 6)  Other:   | ate  |

## **DETAILED ACTION**

Receipt is acknowledged of the amendment filed 06/15/2009.

The rejection under 35 USC 112, first paragraph is withdrawn in view of applicant's response.

The following rejection is maintained in this action:

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9, 11-30, 53-55, 57 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 01/78906 (Spillman).

Spillman discloses an alternating thin film of alternating charge Further, nanoclusters of ZrO2, Al2O3 or TiO2 are also disclosed. This film may be used to coat catheters, stents and similar medical devices (see Abstract). Charged polymers are found at page 5 lines 1-11 and include fullerenes and nanotubes. Ceramic particles disclosed at page 8, lines 12-13. Alternative layering is disclosed at pages 9-10. Nanoclusters are disclosed at page 12, lines 19-29, The size of the layers is disclosed

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as between about 0.1 to 100 nm (page 13, lines 12-15). Multilayered forms are disclosed at page 13, line 5; page 15, lines 18-25; clams 74 and 75; and Figured 10 (a-d). A bioactive is included in the invention at claim 15; [0068] –[0075] for specific bioactives. The instant claims are anticipated by Spillman.

## Response to Arguments

Applicant's arguments filed 0/15/2009 have been fully considered but they are not persuasive.

Applicant argues that the reference does not properly anticipate the claims because it does not set out "at least one charged therapeutic agent". However, in analyzing the claim as written the reference does at least show the inclusion of a drug. The one drug meets the limitation of "at least one". As to its charged nature, the broad term "drug" is inclusive of drugs in their broadest form. As is art recognized, the definition of "drug" often includes derivatives, analogoues, and natural and synthetic forms. In its broadest sense, the term "drug" explicitly includes both charged and uncharged derivatives of a drug.

In analyzing anticipation, the first test is whether every structural limitation is explicitly or inherently disclosed in the prior art. As shown above, the term "drug" is inclusive of charged derivatives thereof.

The second part of the analysis is whether the prior art is capable of performing the function. Applicant has not suggested or disclosed any difference in functionality of the charged drug versus uncharged bioactive. As such, the drug set out by the reference is capable of performing the same function as that of the charged therapeutic.

For these reasons, the reference anticipates the claimed invention and the rejection over Spillman is maintained.

## Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos A. Azpuru whose telephone number is (571) 272-0588. The examiner can normally be reached on Tu-Fri, 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert A. Wax can be reached on (571) 272-0623. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Carlos A. Azpuru/ Primary Examiner, Art Unit 1615

Carlos A. Azpuru Primary Examiner Art Unit 1615

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